

Table of Contents

Sheet 1A	Table of Contents
Sheet 1B	Food Fight Main Wiring Diagram—US (039908-01 A)
Sheet 2A	Food Fight Main Wiring Diagram—Ireland (039998-01 A)
Sheet 2B	Regulator/Audio II PCB Schematic Diagram (035435-01 G), Color Raster Power Supply Wiring Diagram (037669-01 E)
Sheet 3A	Coin Door Wiring Diagram (A037542-01 D), Utility Panel Wiring Diagram (A038004-01 E), Fluorescent Light Wiring Diagram (035833-01 A)
Sheet 3B	EMI Shield Schematic Diagram (037430-04 A)
Sheet 4A	Memory Map

Game PCB Schematics, Sheets 4B–10B

Sheet 4B	Food Fight Power/Ground and CPU Schematic Diagram
Sheet 5A	Food Fight Reset and Digital I/O Schematic Diagram
Sheet 5B	Food Fight Address Decoder Schematic Diagram
Sheet 6A	Food Fight Memory Schematic Diagram
Sheet 6B	Food Fight Sync Schematic Diagram
Sheet 7A	Food Fight Playfield RAM/ROM Schematic Diagram
Sheet 7B	Food Fight Motion Object RAM Schematic Diagram
Sheet 8A	Food Fight Vertical Position Schematic Diagram
Sheet 8B	Food Fight Motion Object ROM Schematic Diagram
Sheet 9A	Food Fight Line Buffers Schematic Diagram
Sheet 9B	Food Fight Color RAM Schematic Diagram
Sheet 10A	Food Fight Sound Schematic Diagram
Sheet 10B	Food Fight Analog Inputs

Display Schematics, Sheets 11A–11B

Sheet 11A	Electrohome Display Schematic Diagram (92-049)
Sheet 11B	Matsushita Display Schematic Diagram (139003-1004)

NOTE
This staple temporarily holds the
schematic package together. Remove
the staple before using these
schematics.



Schematic Package Supplement to

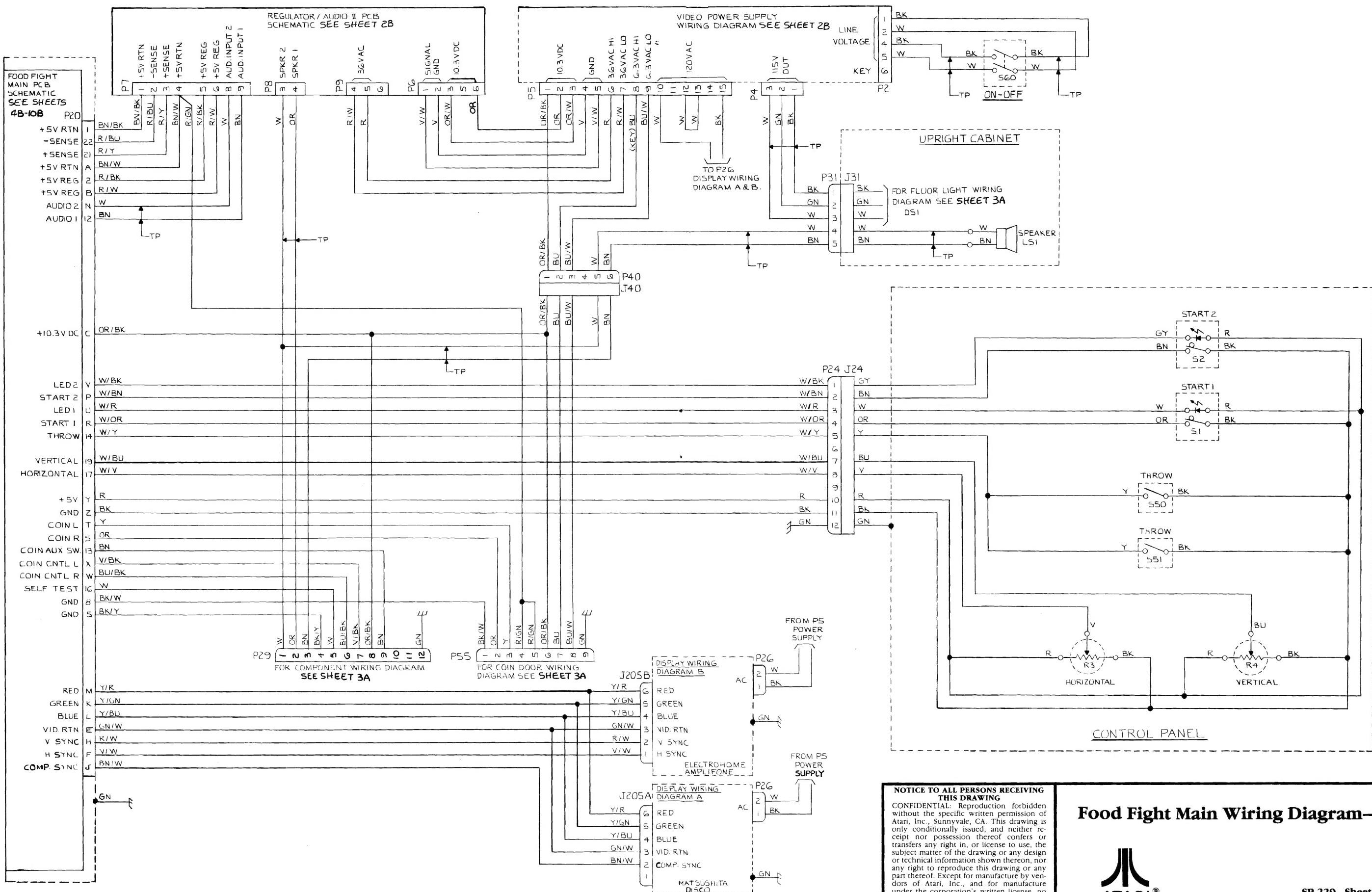
Chucky's
FOOD FIGHT™

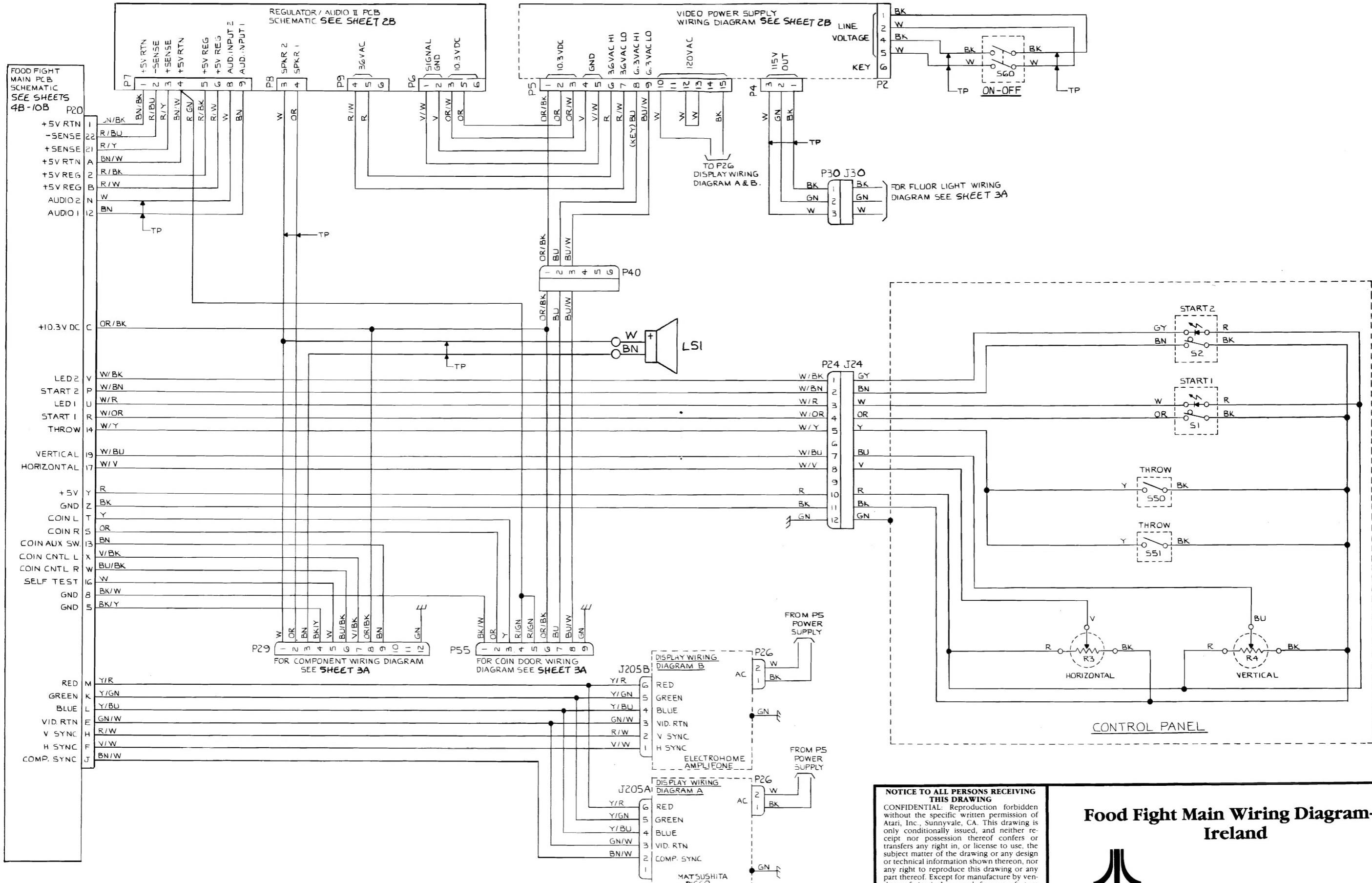
Operators Manual

2M

ATARI INC., 1983

SP-229 Sheet 1A
1st Printing



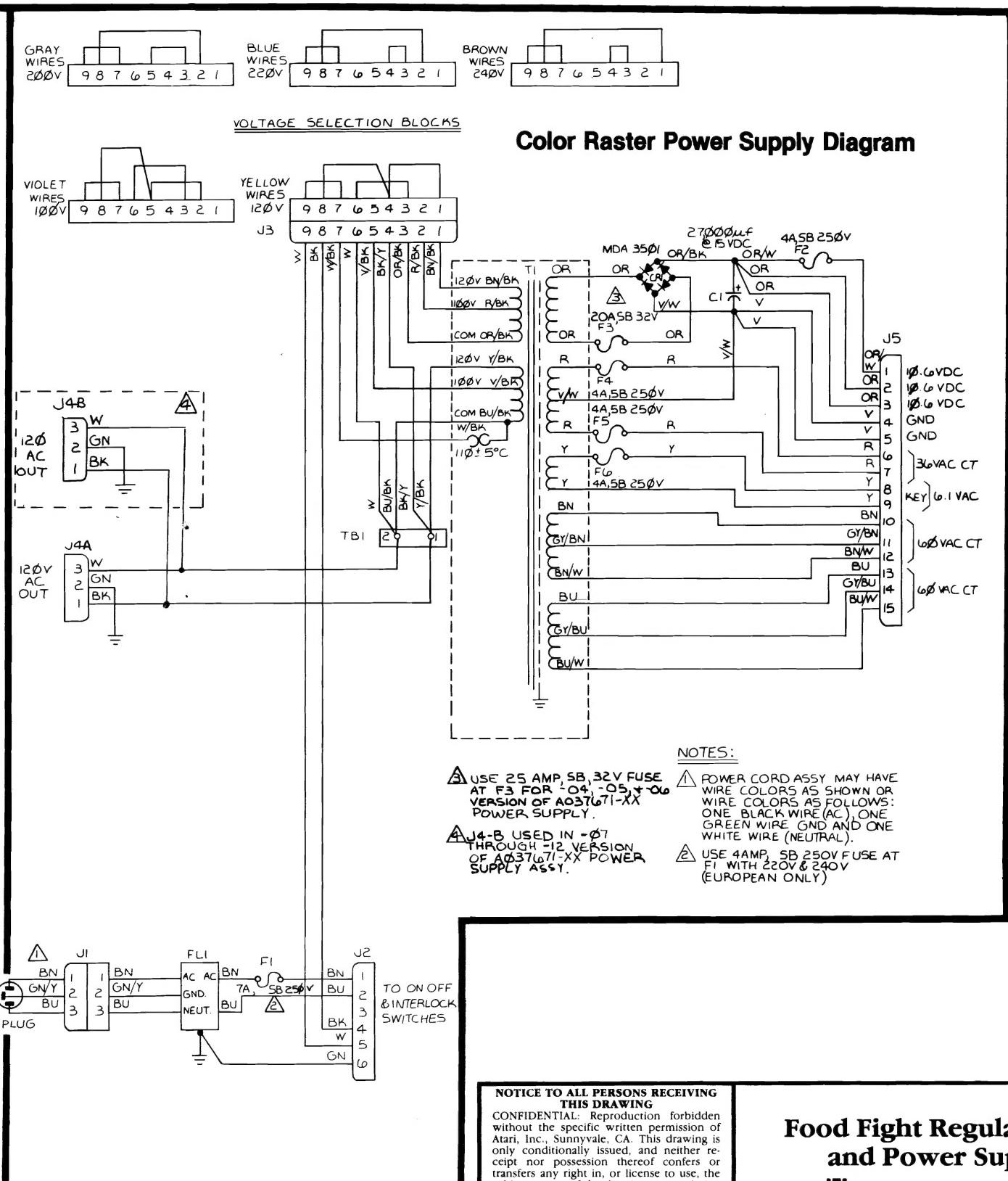
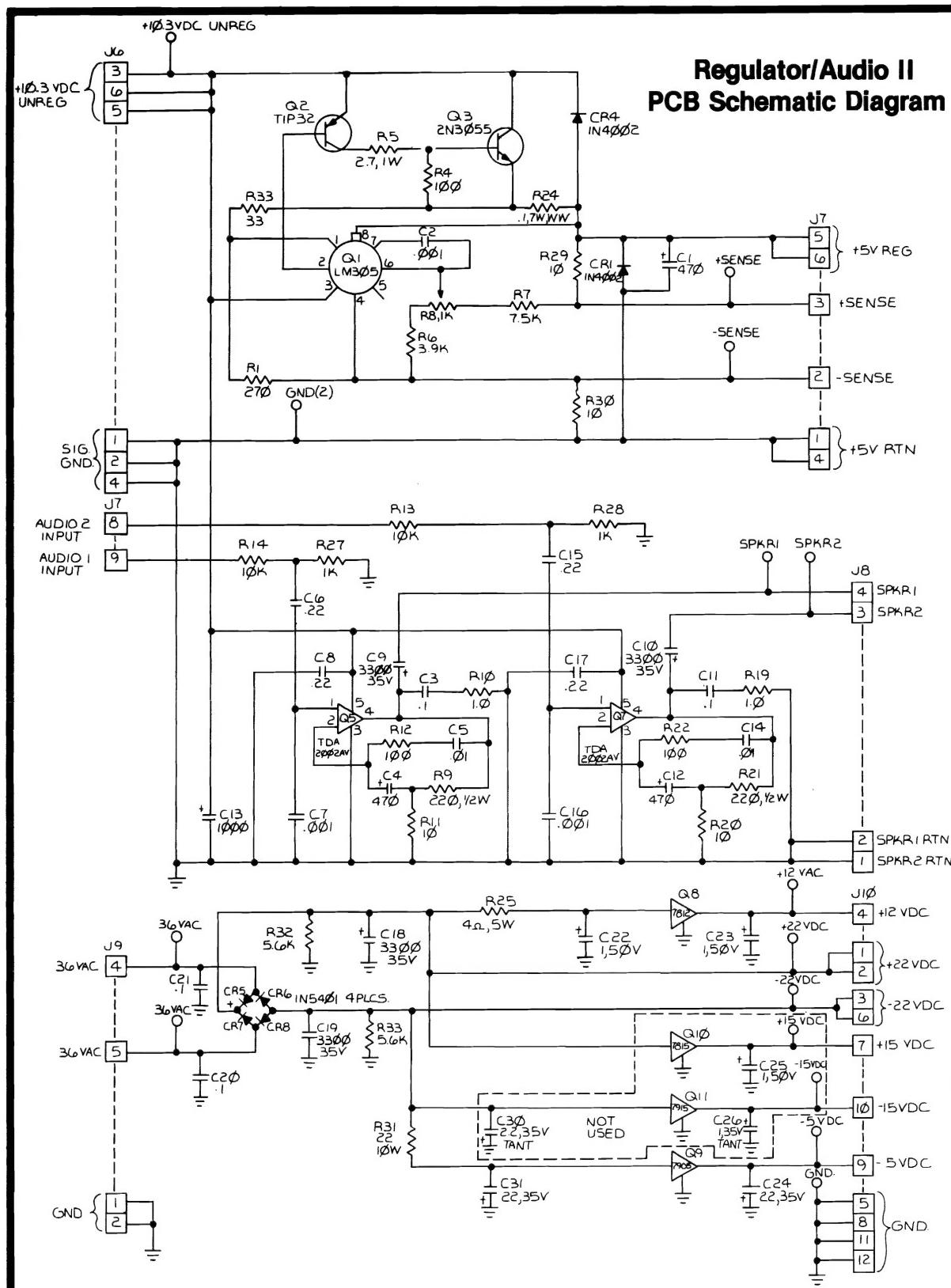


Food Fight Main Wiring Diagram— Ireland



**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



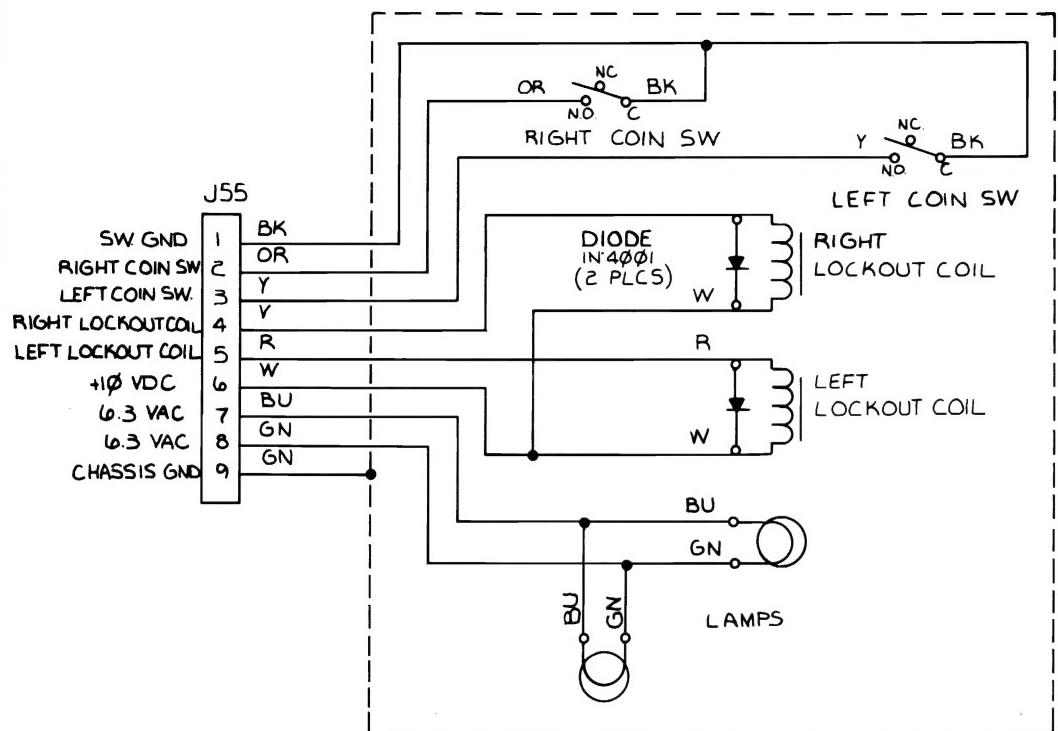
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof conveys or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Regulator/Audio II PCB and Power Supply Diagrams

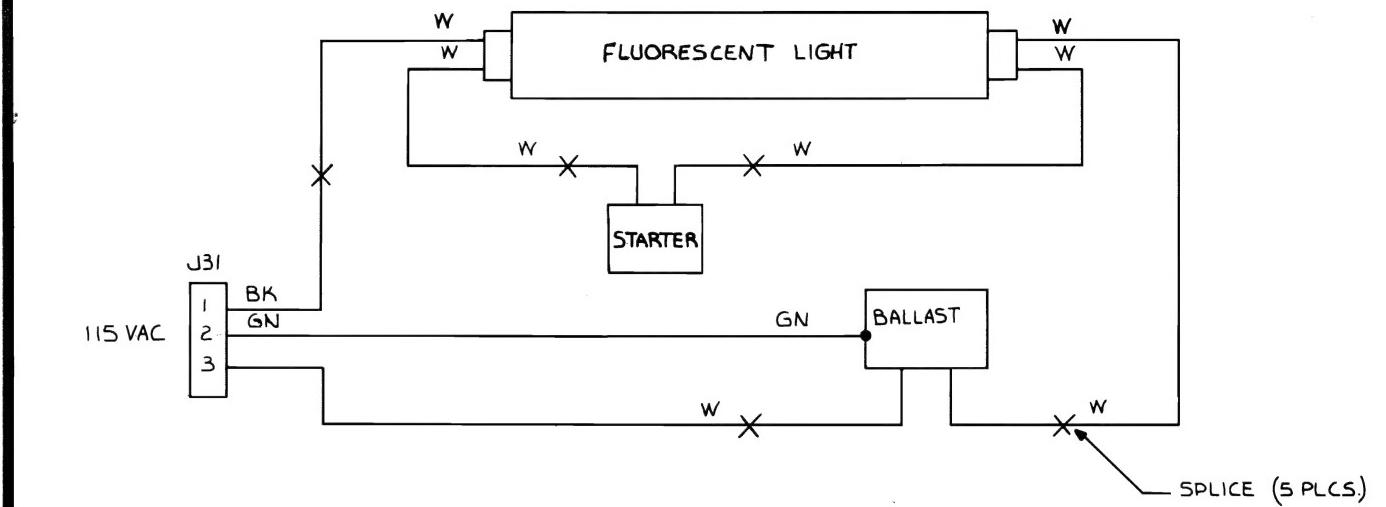


A Warner Communications Company

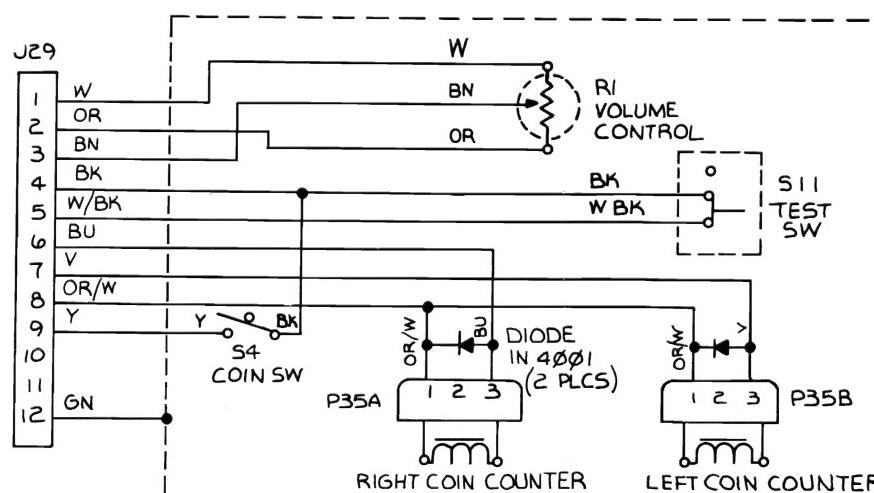
Coin-Door Wiring Diagram



Fluorescent Light Wiring Diagram



Utility Panel Wiring Diagram



NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

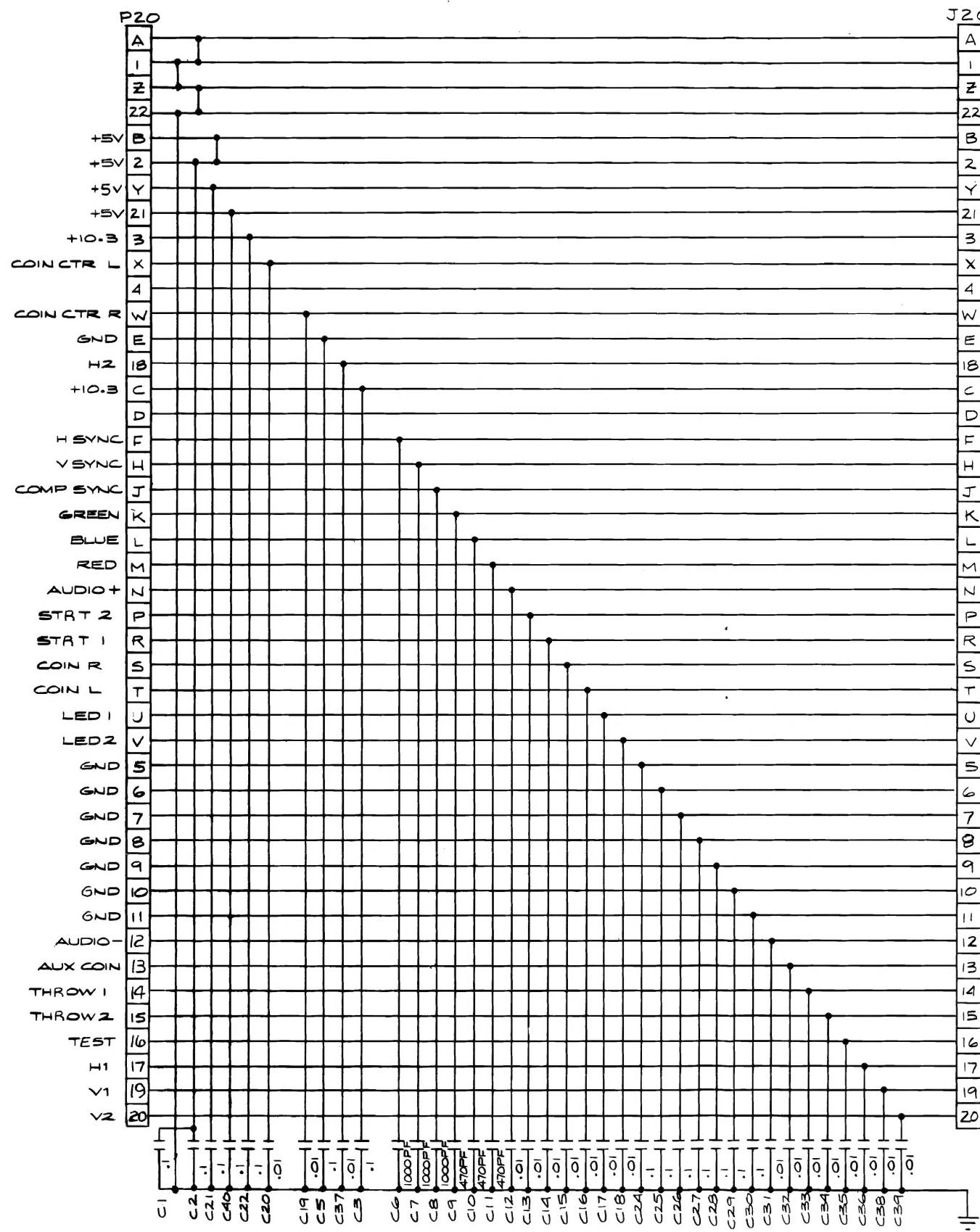
Food Fight Game Wiring Interfaces



W

A

Warner Communications Company



**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

EMI Shield Schematic Diagram



A Warner Communications Company

MEMORY MAP

HEXADECIMAL ADDRESS	ADDRESS BUS SIGNAL LINES																R/W	DATA BUS SIGNAL LINES												FUNCTION									
	A23	A22	A21	A20	A19	A18	A17	A16	A15	A14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0	D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1
000000-00FFFF	0	0	0	0	0	0	0	0	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	R	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PROGRAM ROM
014000-01BFFF	0	0	0	0	0	0	0	1	0	1	A	A	A	A	A	A	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PROGRAM RAM
01C000-01C0FF	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PROGRAM RAM
																																	MOTION OBJECT RAM						
																																	VERTICAL POSITION						
																																	HORIZONTAL POSITION						
																																	PICTURE						
																																	COLOR						
800000-8007FF	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	D	PLAYFIELD	
900000-9001FF	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	D	NVRAM	
940000-940007	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	R	D	D	D	D	D	D	D	D	D	D	D	D	ANALOG IN		
944000-944007																							A	R	D	D	D	D	D	D	D	D	D	D	D	D	ANALOG OUT		
948000																							A	R	R	R	R	R	R	R	R	R	R	R	R	R	COIN 1 (DIGITAL IN)		
																																	COIN 2						
																																	START 1						
																																	START 2						
																																	COIN AUX						
																																	THROW 1						
																																	THROW 2						
																																	TEST						
																																	PFFLIP						
																																	UPDATE						
																																	INT3RST						
																																	INT4RST						
																																	LED 1						
																																	LED 2						
																																	COUNTERL						
																																	COUNTERR						
950000-9503FF	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	A	A	A	A	A	A	A	W	D	D	D	D	D	D	D	D	D	D	D	D	D	COLORAM	
954000																		1	0	1															RECALL				
958000																		1	1	0															WATCHDOG				
A40000-A4001F	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	AUDIO 1		
A80000-A8001F	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	AUDIO 0		
000000-7FFFFFF	0	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	D	DTACK		
940000-97FFFF	1	0	0	1	0	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	R/W	D	D	D	D	D	D	D	D	D	D	D	D	VPA			

NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

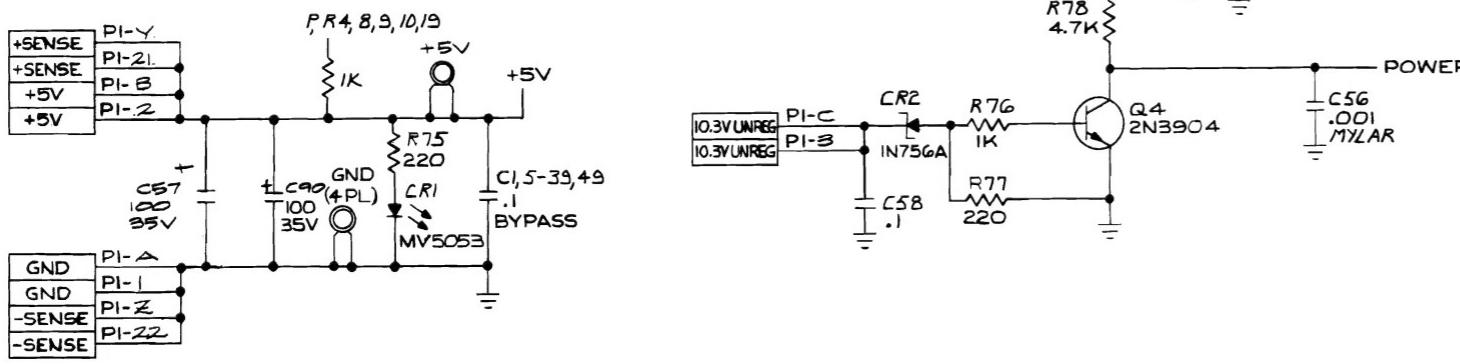
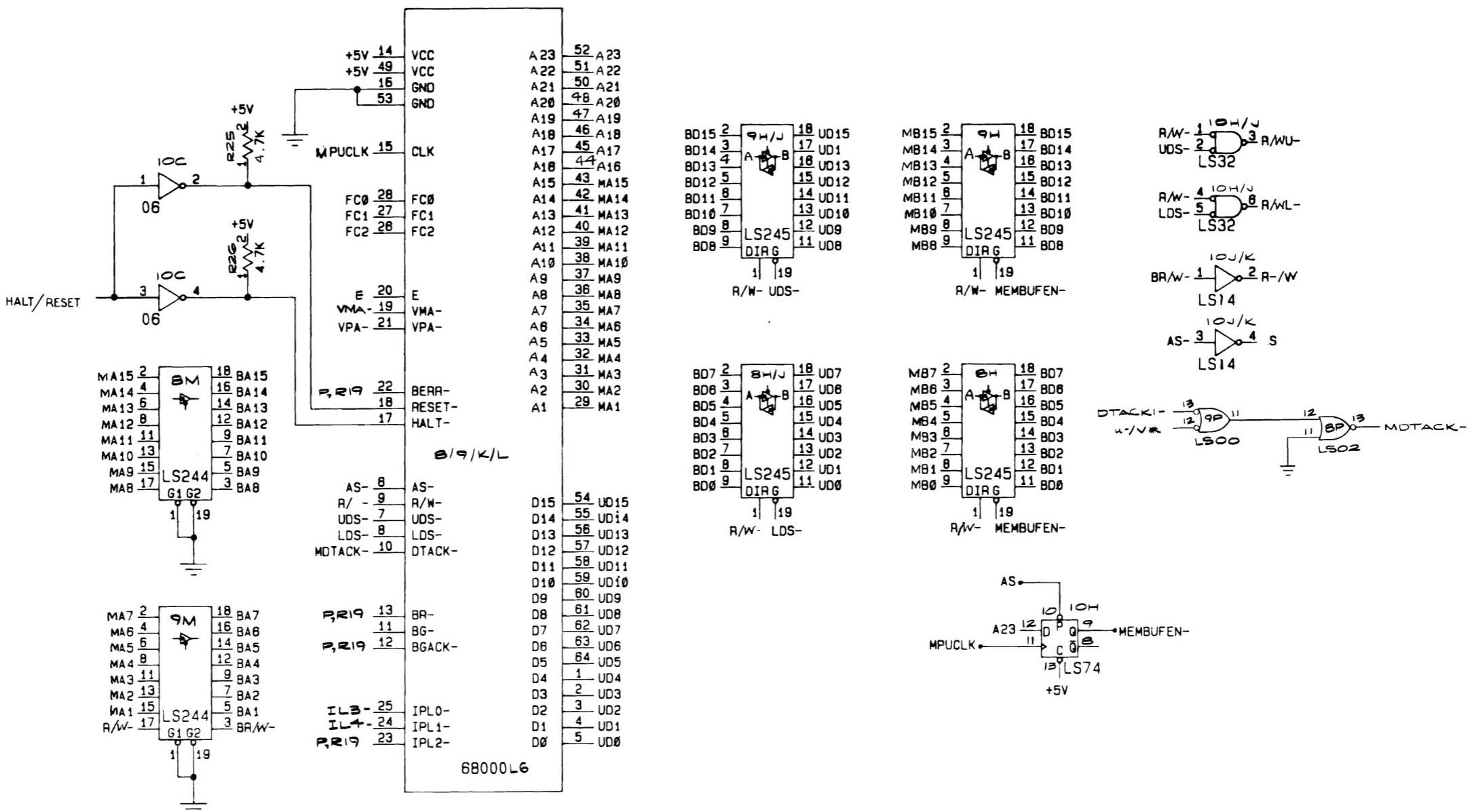
Food Fight Memory Map



ATARI®
W Warner Communications Company

© ATARI INC. 1983

SP-229 Sheet 4A
 1st Printing

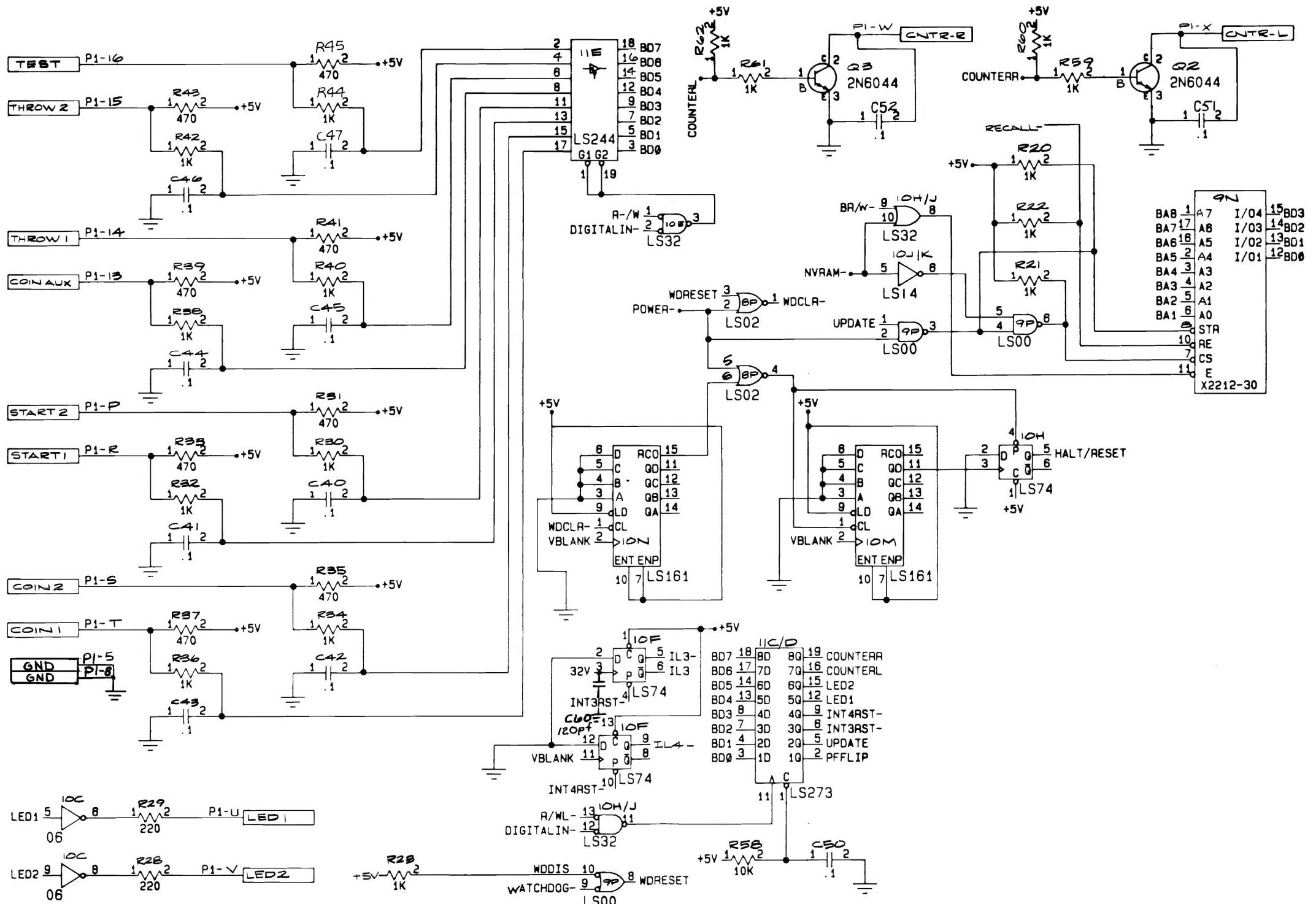


NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Power/Ground and CPU Schematic Diagram



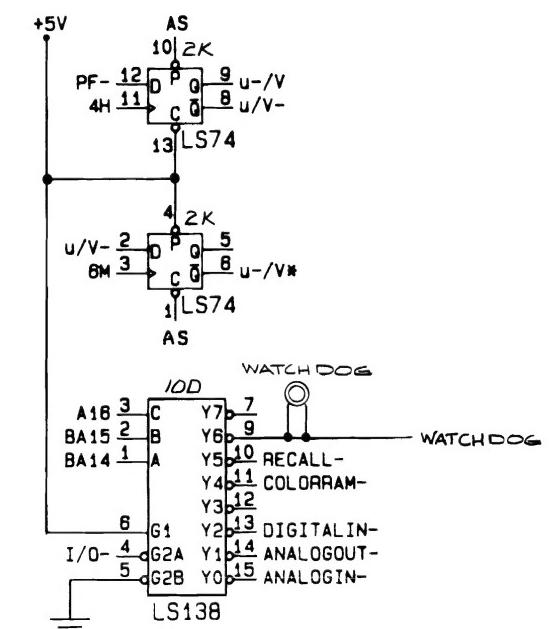
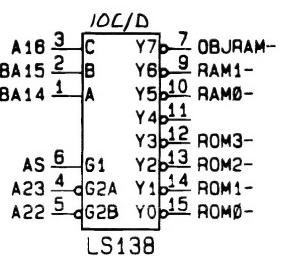
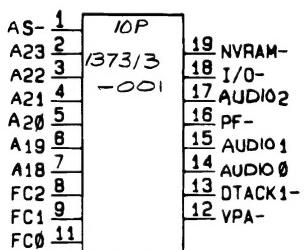
A Warner Communications Company



NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Reset and Digital I/O Schematic Diagram





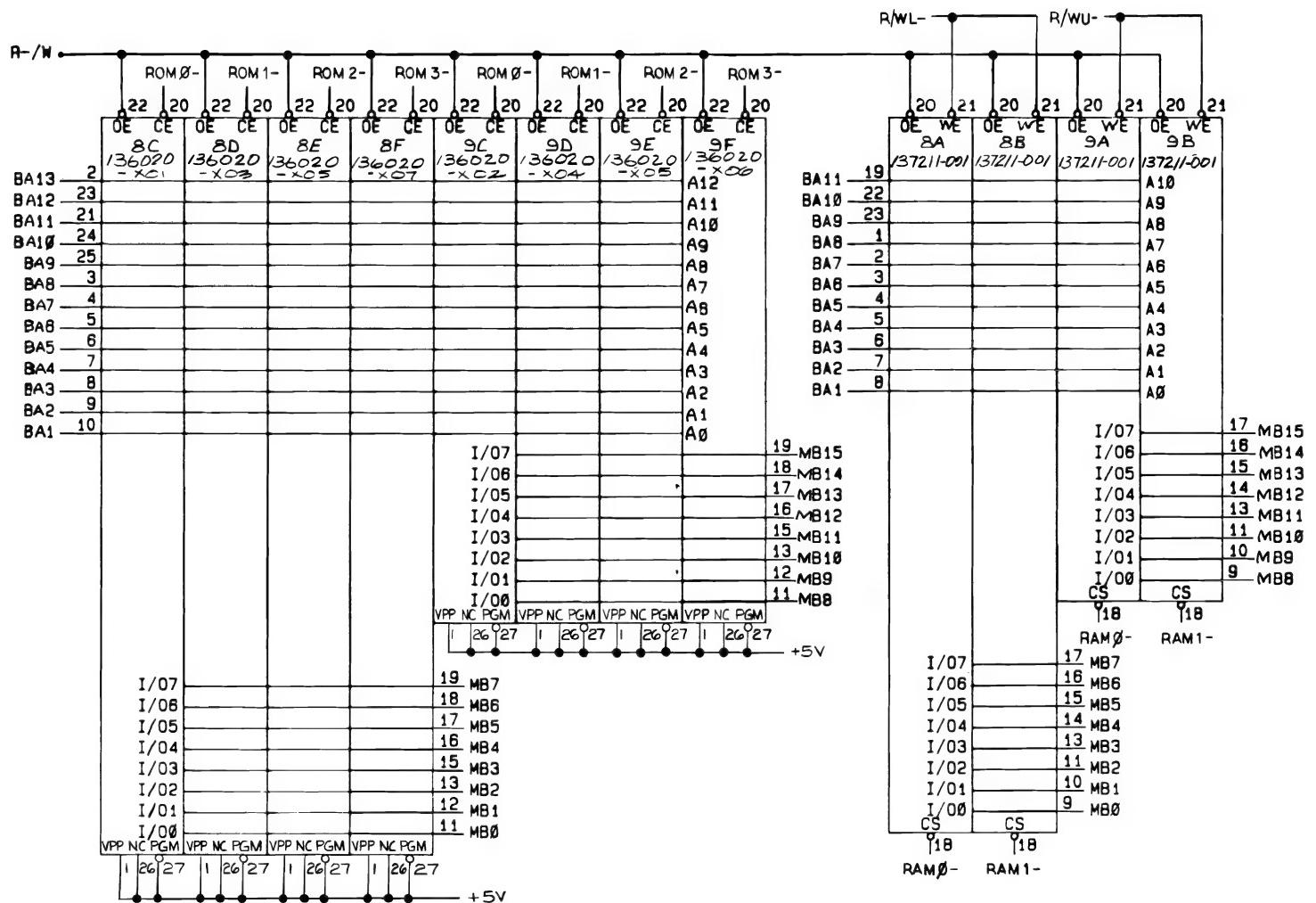
**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon; nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Address Decoder Schematic Diagram



© ATARI INC. 1983

SP-229 Sheet 5B
1st Printing

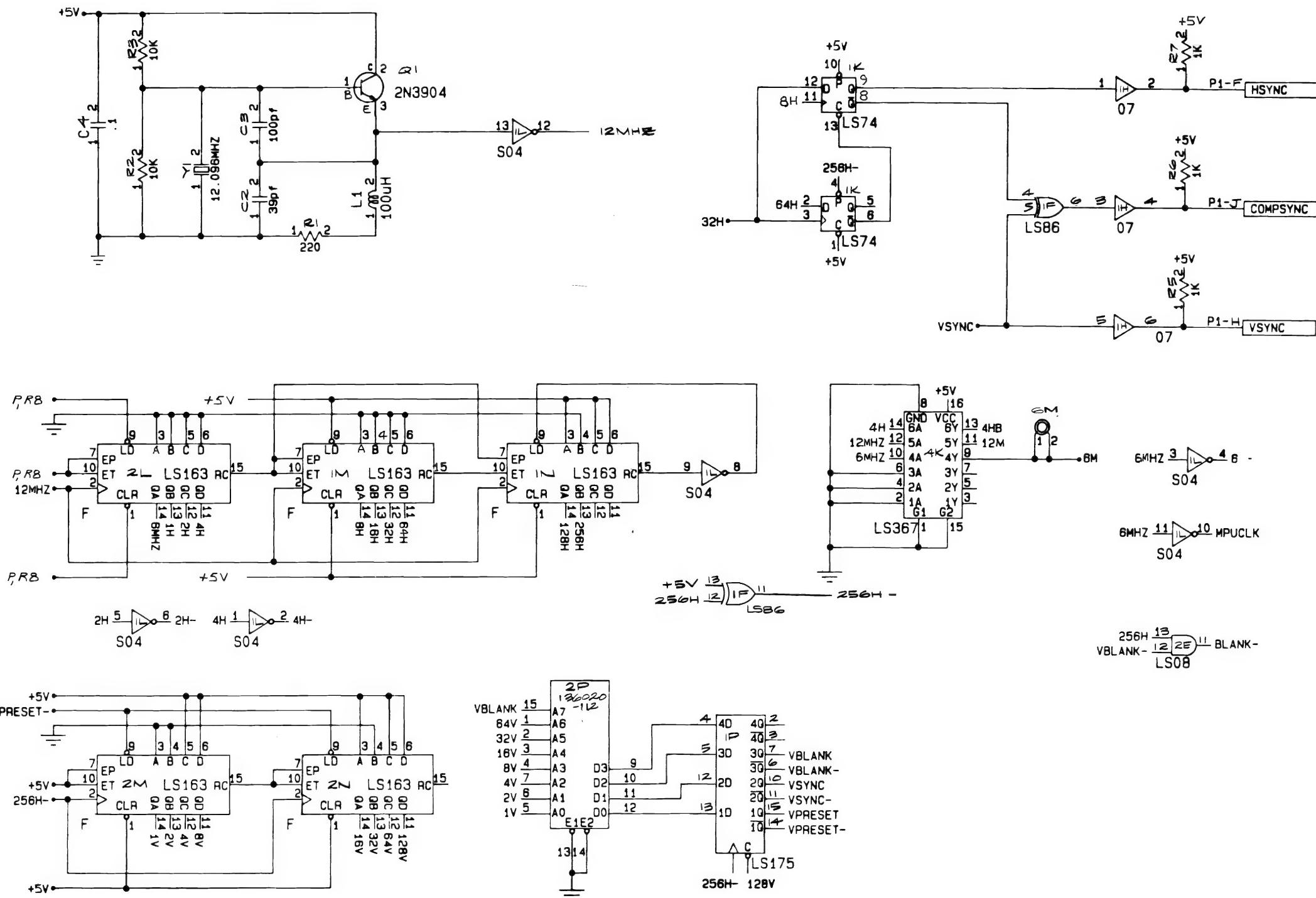


**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**

THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Memory Schematic Diagram





NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither recipient nor possession thereof conveys or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

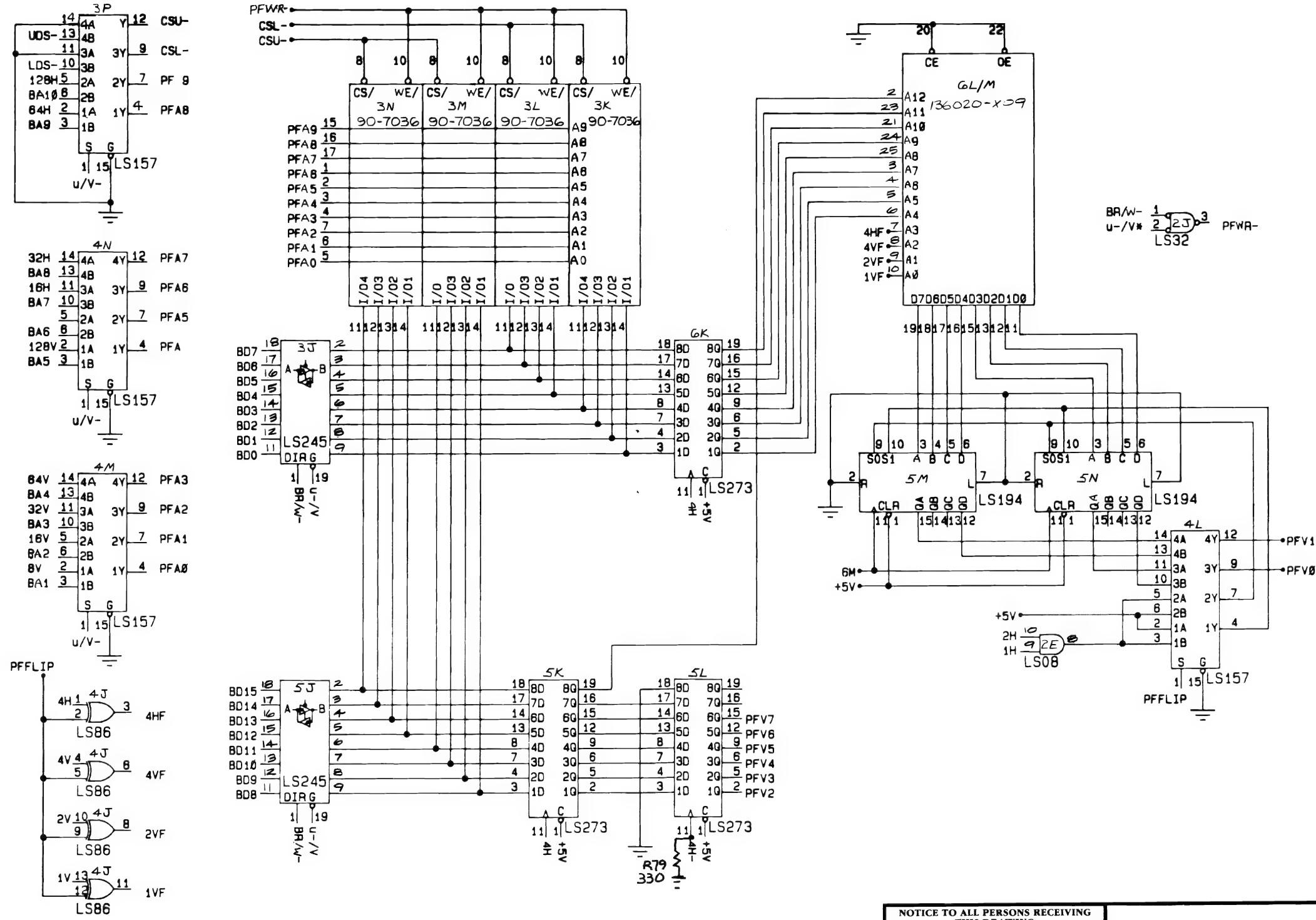
Food Fight Sync Schematic Diagram



©

ATARI

A Warner Communications Company

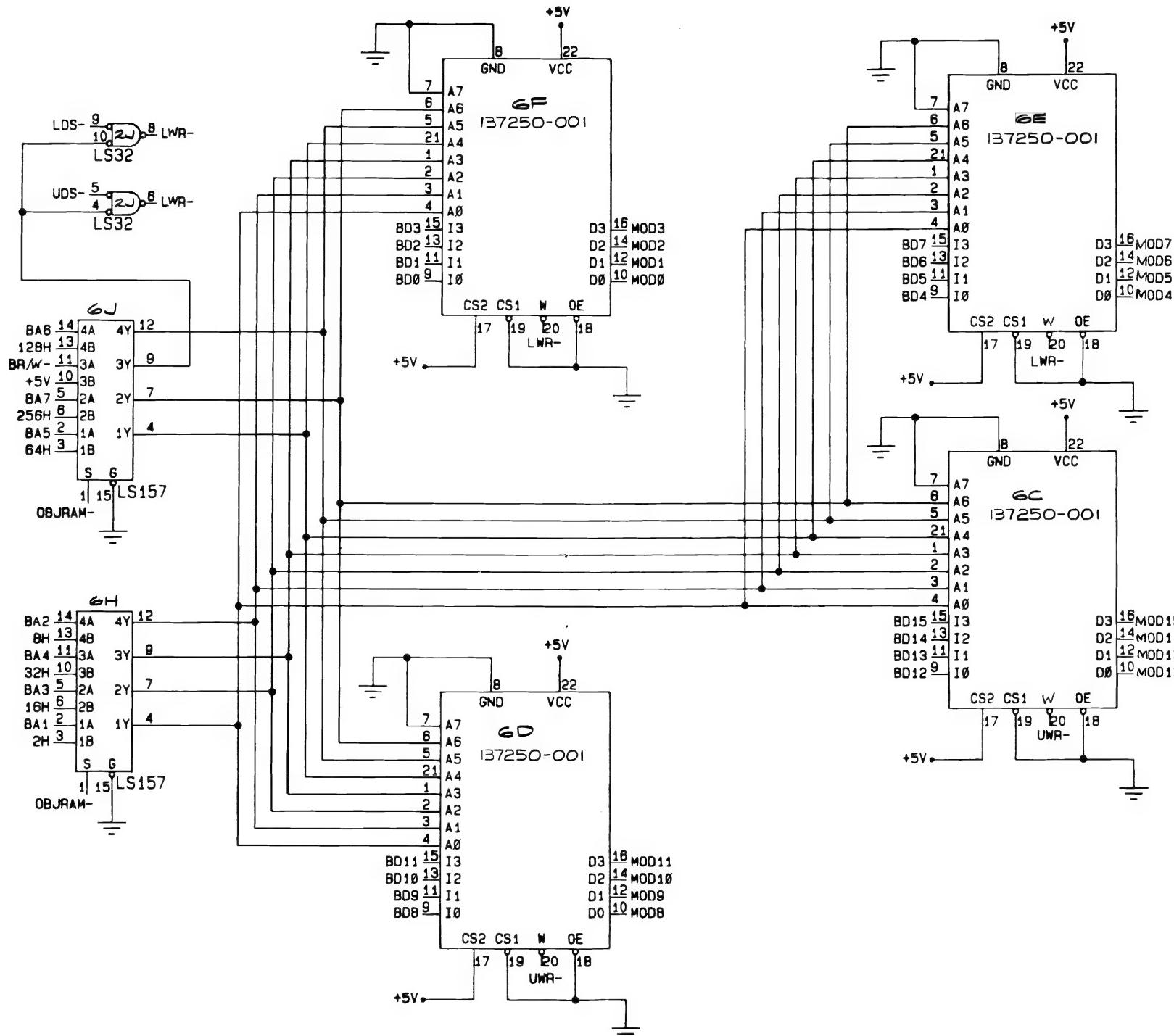


NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Playfield RAM/ROM Schematic Diagram



A Warner Communications Company



**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

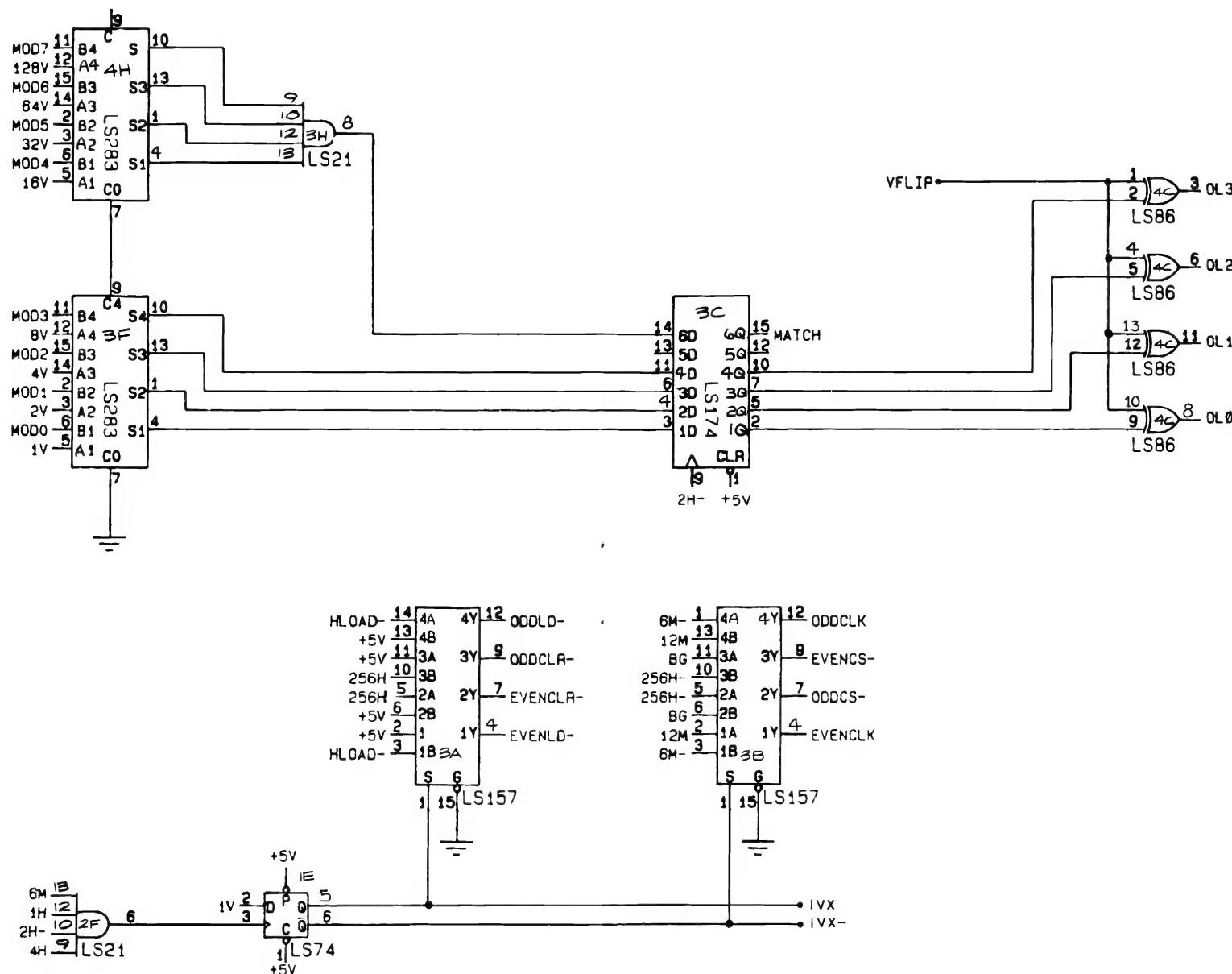
Food Fight Motion Object RAM Schematic Diagram



A Warner Communications Company

SP-229 Sheet 7B
1st Printing

© ATARI INC. 1983

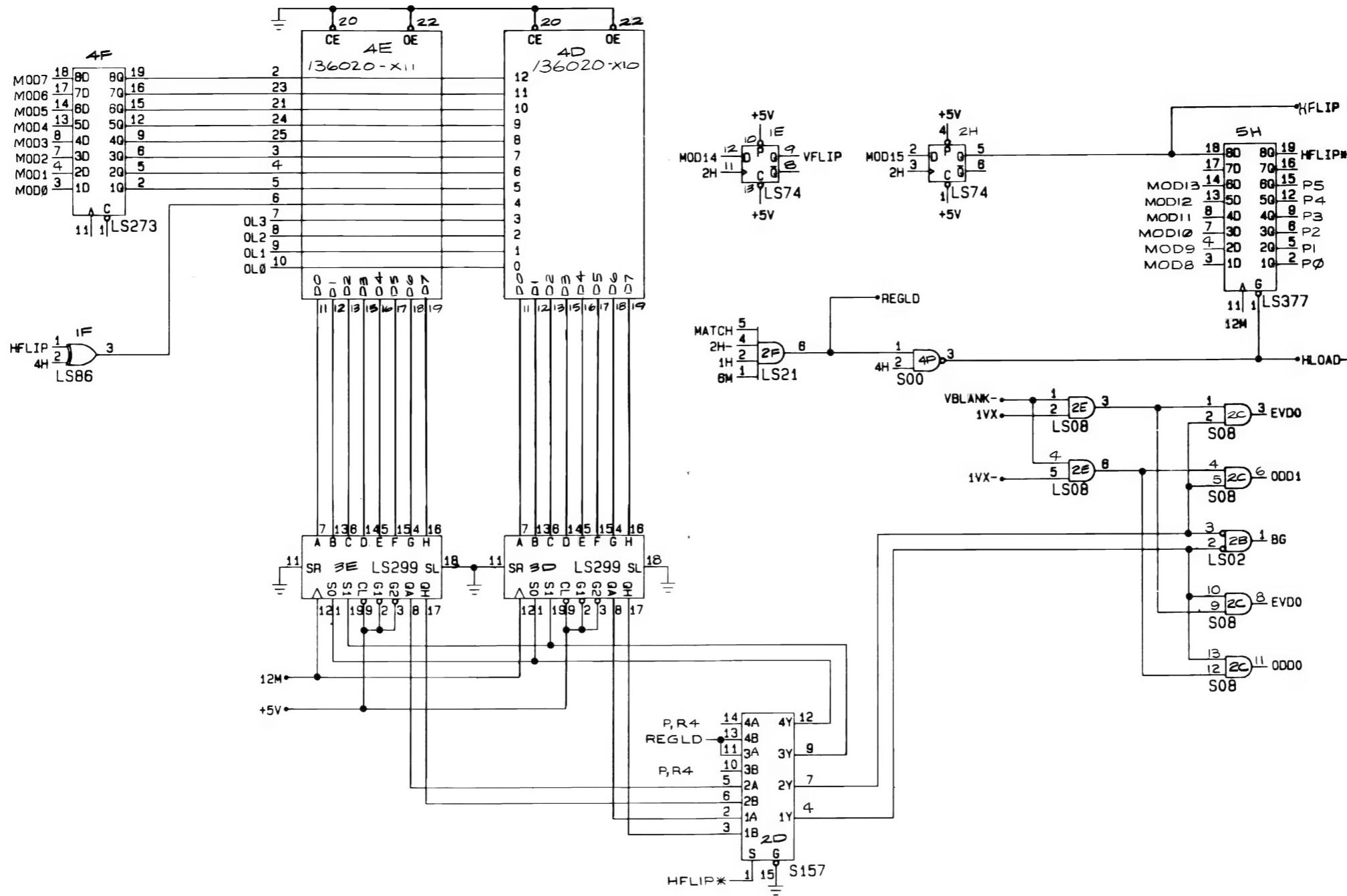


**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof conveys or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Vertical Position Schematic Diagram



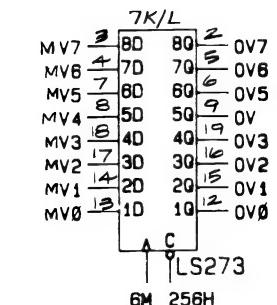
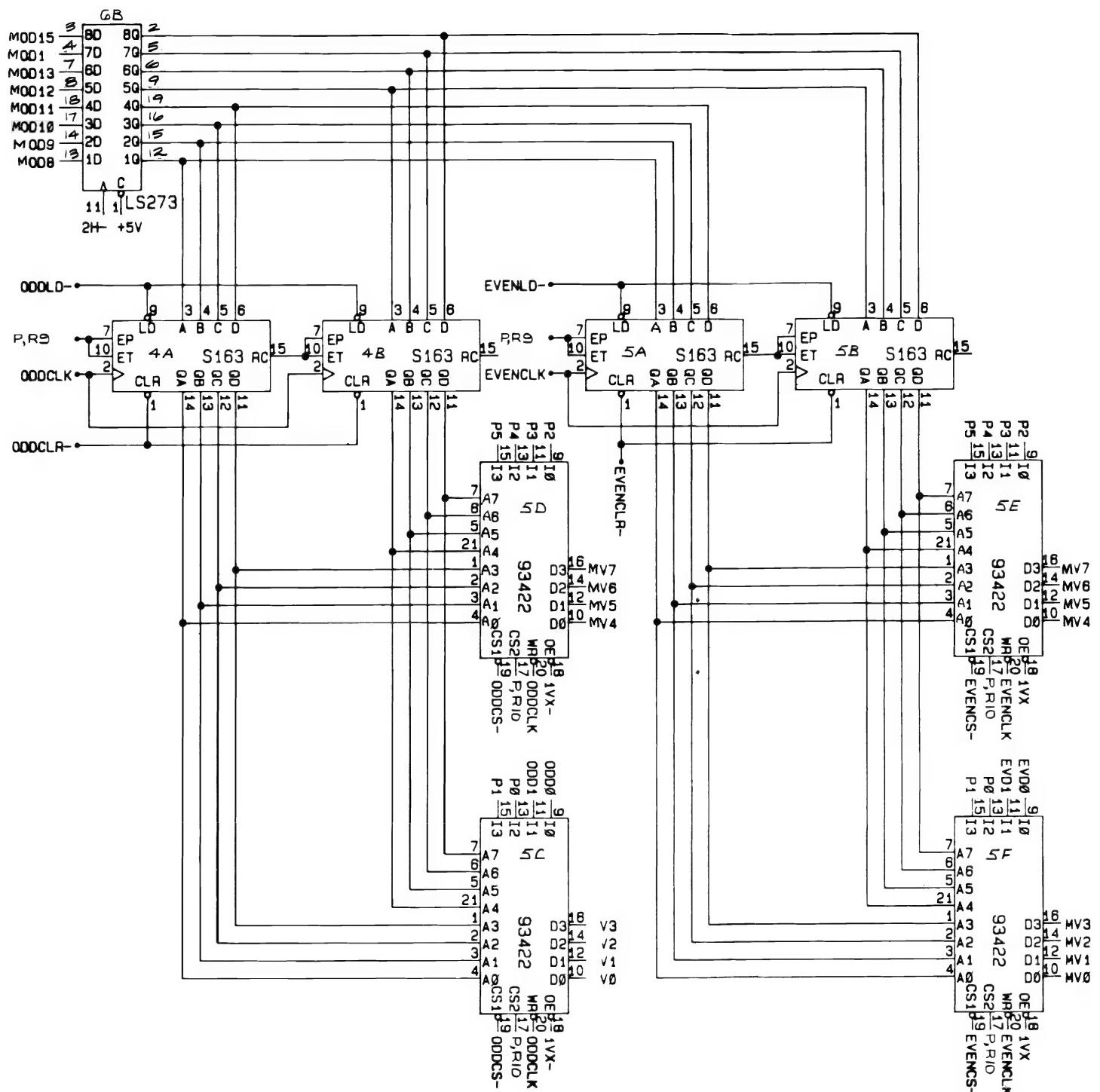


NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof conveys or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Motion-Object ROM Schematic Diagram



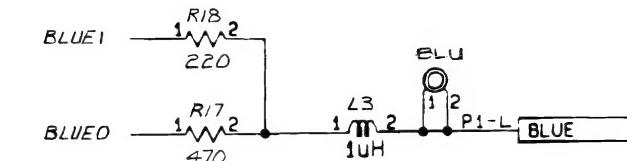
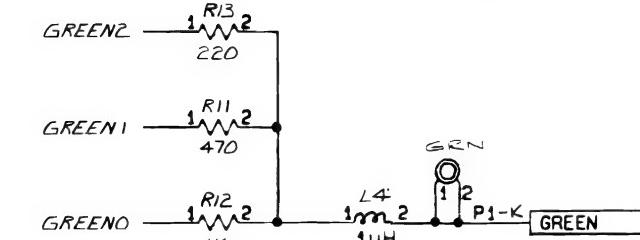
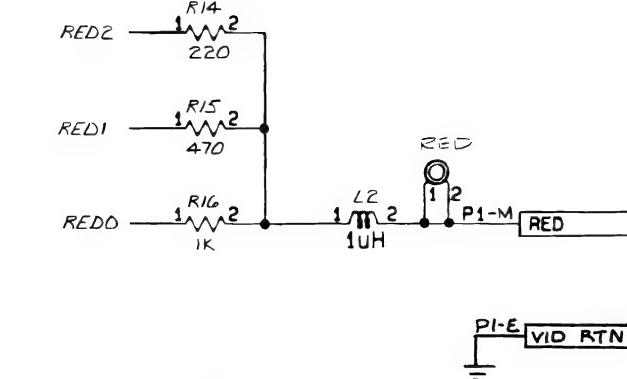
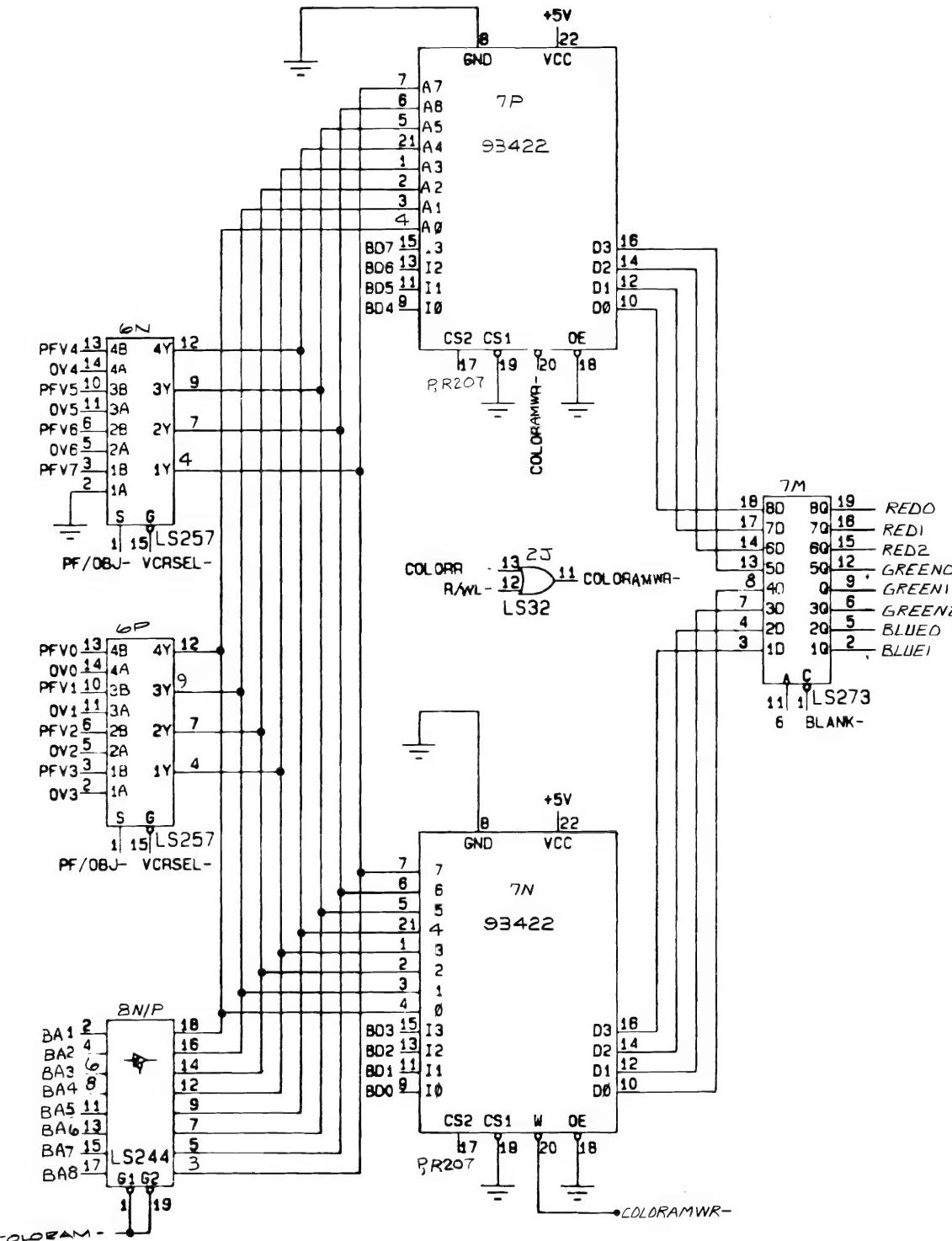


**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**

THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Line Buffers Schematic Diagram





**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

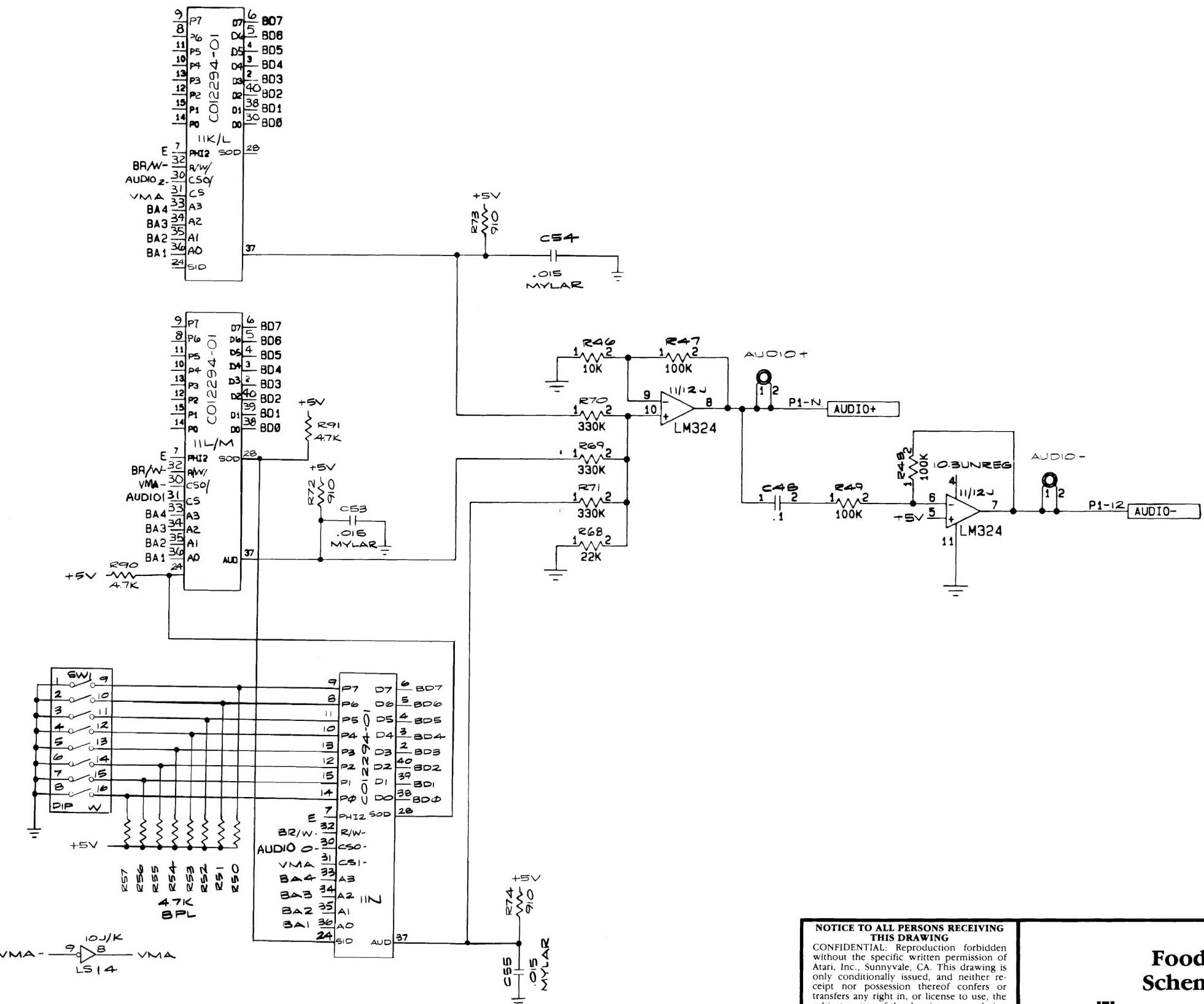
Food Fight Color RAM Schematic Diagram



ATARI[®]

W

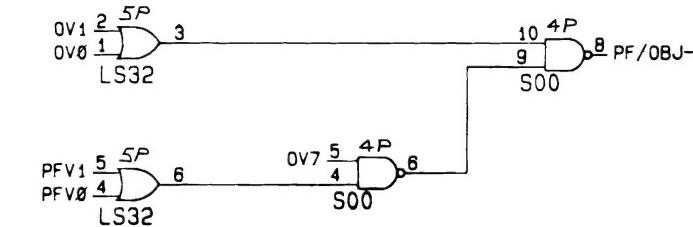
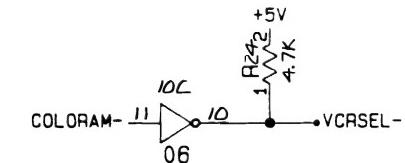
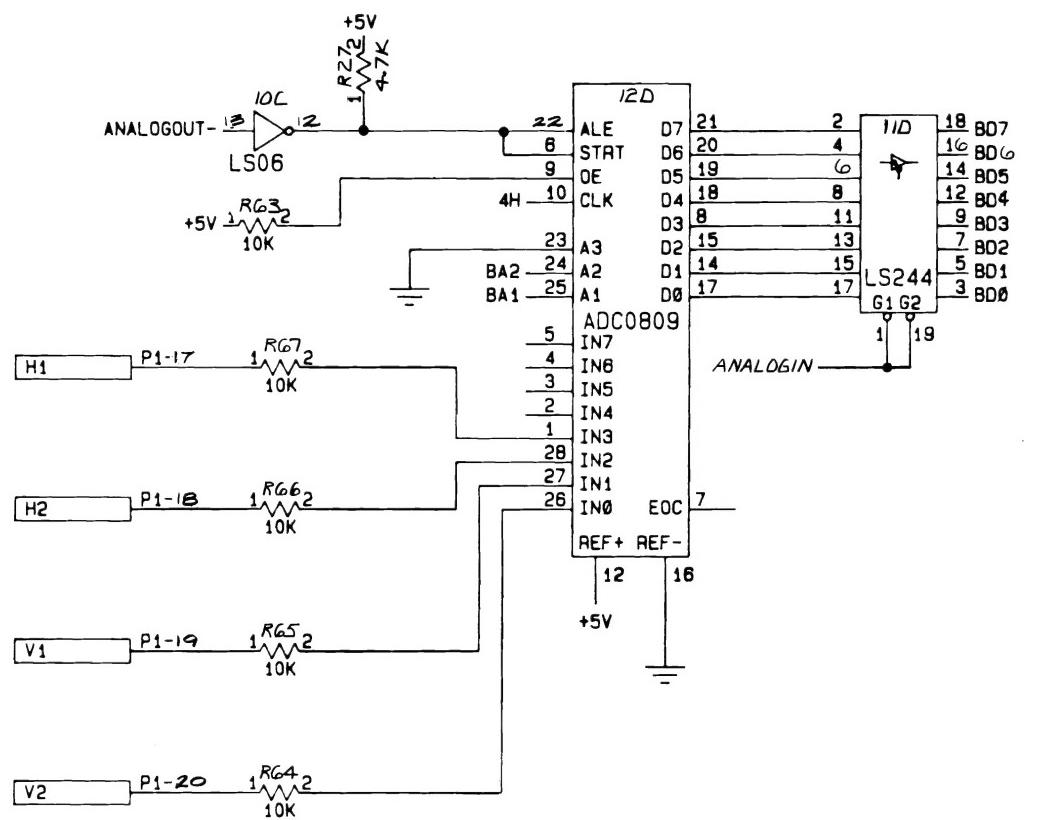
A Warner Communications Company



Food Fight Sound Schematic Diagram



A Warner Communications Company



**NOTICE TO ALL PERSONS RECEIVING
THIS DRAWING**
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Food Fight Analog Inputs Schematic Diagram



© ATARI INC. 1983

Schematic Notes

Unless otherwise specified

Resistance: (Ω) ($K \rightarrow K\Omega$, $M \rightarrow M\Omega$), 1/4 (W) carbon resistor

Capacitance: 1 or higher → (μF), less than 1 → (μF)

working voltage → 50 (V)

ceramic capacitor

Inductance: (μH)

Electrolytic Cap: Capacitance Value (μF)/working voltage (V),
NP → non-polar (or bipolar) electrolytic cap.

Refer to the parts list for additional component information.

○ indicates test point connection

— indicates chassis ground unless otherwise specified

Hz indicates cycles per second

For safety purposes (and continuing reliability)

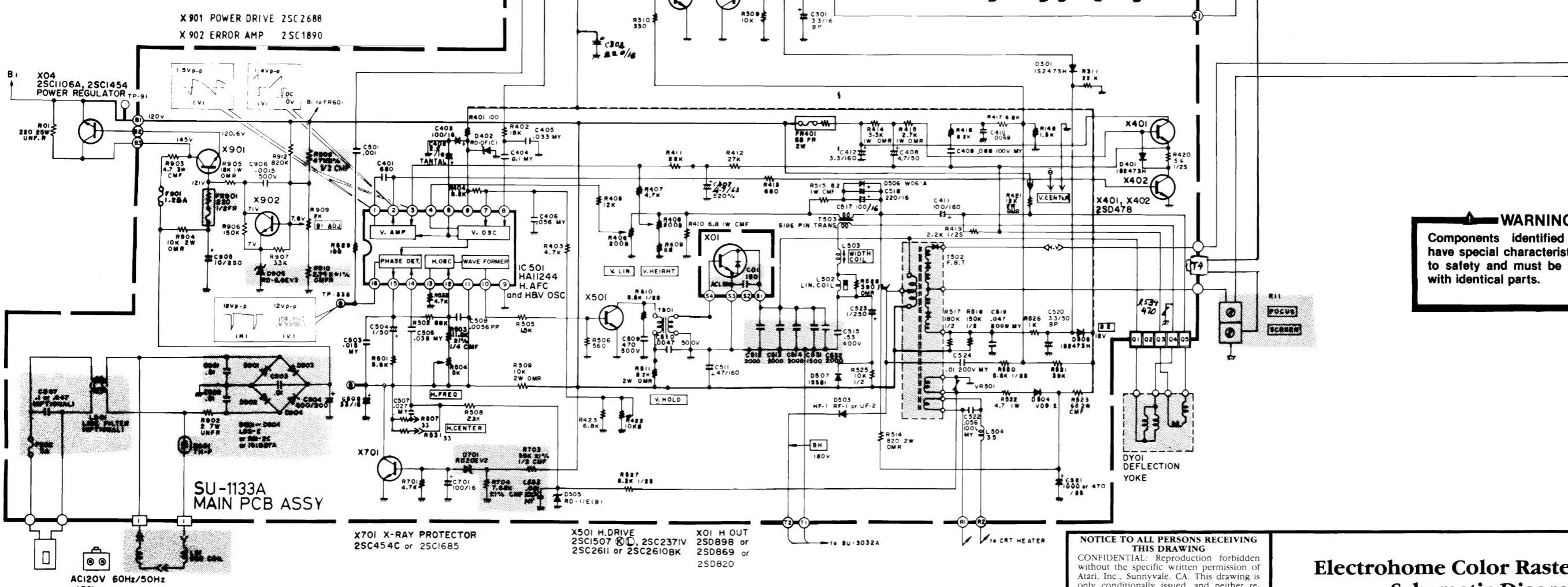
⚠ replace all components marked with safety symbol with identical type.

NOTE: FR → fusible resistor (—)

Parts identification on circuit boards:

e.g. SU1126A (R107 = R1107)

SU3030A (R113 = R3113)

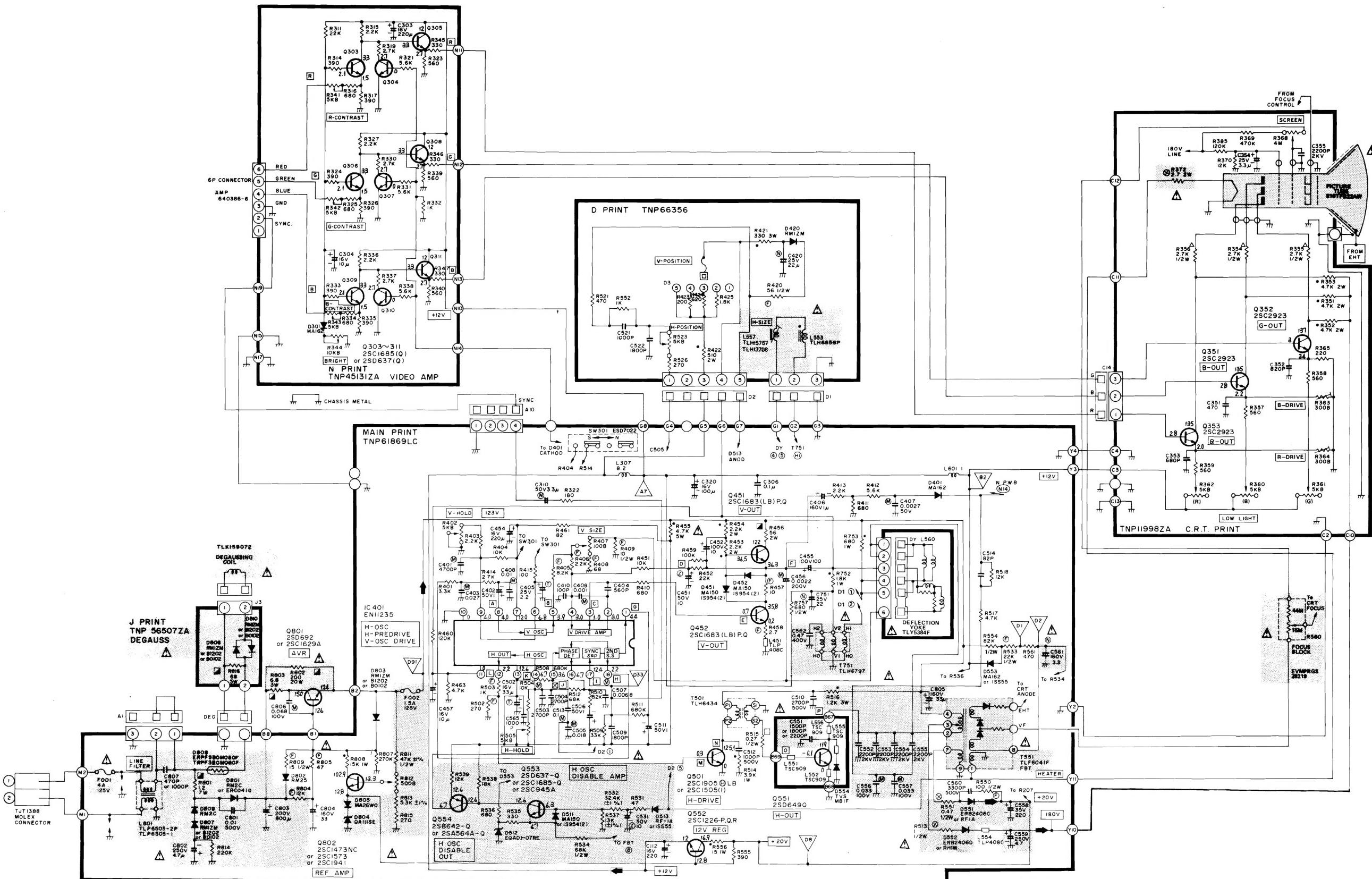


NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

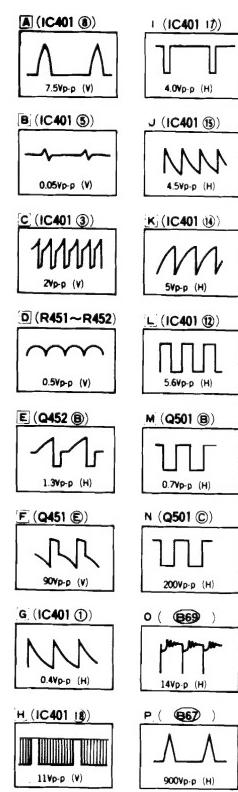
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Electrohome Color Raster Display Schematic Diagram





Waveform



NOTE

- 1. RESISTOR**
All resistors are carbon 1/4W resistor, unless otherwise noted. The following marks are used:
 - Ω: Wire Wound
 - : Ceramic
 - △: Thermistor
 - ◊: Non-Flamable
 - ×: Cement
 - : Fuse
- 2. CAPACITOR**
All capacitors are ceramic 50V capacitor, unless otherwise noted. The following marks are used:
 - : Electrolytic
 - : Bipolar
 - △: Z type
 - ◊: Dipped Tantalum
 - : Safety Vent
 - ×: Polypropylene
 - △: Titanium Oxide
 - : Temp Compensation Polyester
- 3. COIL**
Unit of inductance is μH.
- 4. TEST POINT**
Unit of inductance is μH.

WARNING
Components identified by shading have special characteristics important to safety and must be replaced only with identical parts.

NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Matsushita Color Raster Display Schematic Diagram



A Warner Communications Company